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Result page: 1 2 [next](#)Relevance scale **1 Toward an organic hypertext** Robert Kendall, Jean-Hugues Réty**May 2000 Proceedings of the eleventh ACM on Hypertext and hypermedia****Publisher:** ACM PressFull text available:  [pdf\(153.29 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** adaptive hypermedia, hypertext literature, hypertext structure, organic form, theory

**2 Hypertext engineering: practical methods for creating a compact disk encyclopedia** R. J. Glushko, Mark D. Weaver, Thomas A. Coonan, Janet E. Lincoln**January 2000 Proceedings of the ACM conference on Document processing systems****Publisher:** ACM PressFull text available:  [pdf\(666.34 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**3 Text classification: Parameterized generation of labeled datasets for text** categorization based on a hierarchical directory

Dmitry Davidov, Evgeniy Gabrilovich, Shaul Markovitch

**July 2004 Proceedings of the 27th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '04****Publisher:** ACM PressFull text available:  [pdf\(164.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Although text categorization is a burgeoning area of IR research, readily available test collections in this field are surprisingly scarce. We describe a methodology and system (named ACCIO) for automatically acquiring labeled datasets for text categorization from the World Wide Web, by capitalizing on the body of knowledge encoded in the structure of existing hierarchical directories such as the Open Directory. We define parameters of categories that make it possible to acquire nu ...

**4 50 years after "As we may think": the Brown/MIT Vannevar Bush symposium** Rosemary Simpson, Allen Renear, Elli Mylonas, Andries van Dam**March 1996 interactions**, Volume 3 Issue 2**Publisher:** ACM Press

Full text available:  pdf(1.18 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

5 [Hyperdocuments as automata: verification of trace-based browsing properties by model checking](#) 

P. David Stotts, Richard Furuta, Cyrano Ruiz Cabarrus

January 1998 **ACM Transactions on Information Systems (TOIS)**, Volume 16 Issue 1

Publisher: ACM Press

Full text available:  pdf(474.20 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a view of hyperdocuments in which each document encodes its own browsing semantics in its links. This requires a mental shift in how a hyperdocument is thought of abstractly. Instead of treating the links of a document as defining a static directed graph, they are thought of as defining an abstract program, termed the links-automaton of the document. A branching temporal logic notation, termed HTL\*, is introduced for specifying properties a document should exhibit ...

**Keywords:** Petri nets, browsing semantics, hypermedia, hypertext, model checking, temporal logic

6 [The use of lexicons in information retrieval in legal databases](#) 

J. C. Smith

June 1997 **Proceedings of the 6th international conference on Artificial intelligence and law**

Publisher: ACM Press

Full text available:  pdf(1.70 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 [Visualizing search results: some alternatives to query-document similarity](#) 

Lucy Terry Nowell, Robert K. France, Deborah Hix, Lenwood S. Heath, Edward A. Fox

August 1996 **Proceedings of the 19th annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: ACM Press

Full text available:  pdf(1.80 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 [A practical hypertext categorization method using links and incrementally available class information](#) 

Hyo-Jung Oh, Sung Hyon Myaeng, Mann-Ho Lee

July 2000 **Proceedings of the 23rd annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: ACM Press

Full text available:  pdf(674.31 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As WWW grows at an increasing speed, a classifier targeted at hypertext has become in high demand. While document categorization is quite a mature, the issue of utilizing hypertext structure and hyperlinks has been relatively unexplored. In this paper, we propose a practical method for enhancing both the speed and the quality of hypertext categorization using hyperlinks. In comparison against a recently proposed technique that appears to be the only one of the kind, we obtained up to 18.5% of ...

**Keywords:** text categorization

9 [Modeling and combining evidence provided by document relationships using](#)

 [probabilistic argumentation systems](#)

Justin Picard

August 1998 **Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: ACM Press

Full text available:  [pdf\(1.04 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



**10 A visual representation for knowledge structures**

 M. Travers

November 1989 **Proceedings of the second annual ACM conference on Hypertext**

Publisher: ACM Press

Full text available:  [pdf\(859.59 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



Knowledge-based systems often represent their knowledge as a network of interrelated units. Such networks are commonly presented to the user as a diagram of nodes connected by lines. These diagrams have provided a powerful visual metaphor for knowledge representation. However, their complexity can easily become unmanageable as the knowledge base (KB) grows. This paper describes an alternate visual representation for navigating knowledge structures, based on a virtual museum metap ...

**11 Hyperdocuments as automata: trace-based browsing property verification**

 P. David Stotts, Richard Furuta, J. Cyrano Ruiz

December 1993 **Proceedings of the ACM conference on Hypertext**

Publisher: ACM Press

Full text available:  [pdf\(895.50 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



**12 Special issue on ICML: Learning probabilistic models of link structure**

Lisa Getoor, Nir Friedman, Daphne Koller, Benjamin Taskar

March 2003 **The Journal of Machine Learning Research**, Volume 3

Publisher: MIT Press

Full text available:  [pdf\(479.67 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)



Most real-world data is heterogeneous and richly interconnected. Examples include the Web, hypertext, bibliometric data and social networks. In contrast, most statistical learning methods work with "flat" data representations, forcing us to convert our data into a form that loses much of the link structure. The recently introduced framework of *probabilistic relational models* (PRMs) embraces the object-relational nature of structured data by capturing probabilistic interactions between att ...

**13 Multilingual generation and summarization of job adverts: the TREE project**

Harold Somers, Bill Black, Joakim Nivre, Torbjörn Lager, Annarosa Multari, Luca Gilardoni, Jeremy Ellman, Alex Rogers

March 1997 **Proceedings of the fifth conference on Applied natural language processing**

Publisher: Morgan Kaufmann Publishers Inc.

Full text available:  [pdf\(865.00 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

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A multilingual Internet-based employment advertisement system is described. Job ads are submitted as e-mail texts, analysed by an example-based pattern matcher and stored in language-independent schemas in an object-oriented database. Users can search the database in their own language and get customized summaries of the job ads. The query engine uses symbolic case-based reasoning techniques, while the generation module integrates canned text, templates, and grammar rules to produce texts and hy ...

**14 Guidelines: The semantic web, web accessibility, and device independence**

Lisa Seeman

May 2004 **Proceedings of the 2004 international cross-disciplinary workshop on Web accessibility (W4A) W4A '04**

Publisher: ACM Press

Full text available: [pdf\(81.03 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Over the past several years there has been a significant increase in awareness of the need for Web accessibility and development of policies relating to Web accessibility in Europe. Techniques for implementation have been standardized and benchmark guidelines (Web Content Accessibility Guidelines i.e. WCAG), recommended. However, as Web protocols and technologies emerge, new opportunities become available and it may be possible to open Web content to yet more people and to develop even more power ...

**Keywords:** RDF, SWAP, accessibility, disabilities, semantic web

**15 Human interaction for symbolic computation: RIACA workshop, Amsterdam, March**

10–11, 1994

André Heck

July 1994 **ACM SIGCHI Bulletin**, Volume 26 Issue 3

Publisher: ACM Press

Full text available: [pdf\(396.08 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The Research Institute for Applications of Computer Algebra (*RIACA*), in Amsterdam, The Netherlands, has as its goal the research of applications of computer algebra in the fields of mathematics and sciences, engineering, etc. It aims to be an institute with a strong international visibility.

**16 Learning subjective relevance to facilitate information access**

James R. Chen, Nathalie Mathé

December 1995 **Proceedings of the fourth international conference on Information and knowledge management**

Publisher: ACM Press

Full text available: [pdf\(943.28 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)**17 The application of spatialization and spatial metaphor to augmentative and alternative communication**

P. Demasco, A. F. Newell, J. L. Arnott

October 1994 **Proceedings of the first annual ACM conference on Assistive technologies**

Publisher: ACM Press

Full text available: [pdf\(784.74 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The University of Delaware and the University of Dundee are collaborating on a project that is investigating the application of spatialization and spatial metaphors to interfaces for Augmentative and Alternative Communication. This paper outlines the project's motivation, goals, and methodological considerations. It presents a number of design principles obtained from a review of the HCI literature. Finally, it describes progress on the demonstration of this approach. This application calle ...

**18 A knowledge base for supporting an intelligent program editor**

Daniel G. Shapiro, Jeffrey S. Dean, Brian P. McCune

March 1984 **Proceedings of the 7th international conference on Software engineering**

Publisher: IEEE Press

Full text available: [pdf\(457.92 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents work in progress towards a program development and maintenance aid called the Intelligent Program Editor (IPE), which applies artificial intelligence techniques to the task of manipulating and analyzing programs. The IPE is a knowledge based tool: it gains its power by explicitly representing textual, syntactic, and many of the semantic (meaning related) and pragmatic (application oriented) structures in programs. To demonstrate this approach, we implement a subset of th ...

**19 Short papers: Visualization of ontologies through hypertrees**



Kleber X. S. de Souza, Adriana D. dos Santos, Silvio R. M. Evangelista

August 2003 **Proceedings of the Latin American conference on Human-computer interaction CLIHC '03**

Publisher: ACM Press

Full text available: [pdf\(270.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

In this paper, we present the use of hypertree as a supporting tool for visualization of ontologies in agricultural domain. This kind of visualization technique was used in the Information Agency Project, in execution by the Brazilian Agricultural Research Corporation -- Embrapa. The project's aim is to provide an information dissemination system structured in accordance to the productive chains of given products. That structure was chosen because it reflects the natural way technicians use to i ...

**Keywords:** hypertree visualization, ontology, productive chain

**20 Research session: DB and IR #2: Shuffling a stacked deck: the case for partially randomized ranking of search engine results**



Sandeep Pandey, Sourashis Roy, Christopher Olston, Junghoo Cho, Soumen Chakrabarti  
August 2005 **Proceedings of the 31st international conference on Very large data bases VLDB '05**

Publisher: VLDB Endowment

Full text available: [pdf\(193.25 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In-degree, PageRank, number of visits and other measures of Web page popularity significantly influence the ranking of search results by modern search engines. The assumption is that *popularity* is closely correlated with *quality*, a more elusive concept that is difficult to measure directly. Unfortunately, the correlation between popularity and quality is very weak for newly-created pages that have yet to receive many visits and/or in-links. Worse, since discovery of new content is ...

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Relevance scale

**21** [Round robin classification](#)

Johannes Fürnkranz

March 2002 **The Journal of Machine Learning Research**, Volume 2

Publisher: MIT Press

Full text available: [pdf\(250.25 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we discuss round robin classification (aka pairwise classification), a technique for handling multi-class problems with binary classifiers by learning one classifier for each pair of classes. We present an empirical evaluation of the method, implemented as a wrapper around the Ripper rule learning algorithm, on 20 multi-class datasets from the UCI database repository. Our results show that the technique is very likely to improve Ripper's classification accuracy without having a hi ...

**Keywords:** class binarization, ensemble techniques, inductive rule learning, multi-class problems, pairwise classification

**22** [Product, process, and profit: the politics of usability in a software venture](#)

Barbara Mirel

November 2000 **ACM Journal of Computer Documentation (JCD)**, Volume 24 Issue 4

Publisher: ACM Press

Full text available: [pdf\(702.83 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In research and in practice, usability specialists commonly target the technology user-interfaces and help as the main arena for bringing about usability improvements. However, usability improvements depend on more than innovative and user-centered technical designs and implementations. Equally important for creating useful and usable software are the social and political forces that shape the development context. These forces give rise to leadership conflicts, factional disputes, renegade e ...

**Keywords:** goal conflict, political support, sociology, usability

**23** [Terrorism or civil disobedience: toward a hacktivist ethic](#)

Mark Manion, Abby Goodrum

June 2000 **ACM SIGCAS Computers and Society**, Volume 30 Issue 2

Publisher: ACM Press

Full text available: [pdf\(654.64 KB\)](#) Additional Information: [full citation](#), [references](#)

**24 Shortening the OED: experience with a grammar-defined database**

◆ G. Elizabeth Blake, Tim Bray, Frank Wm. Tompa

◆ July 1992 **ACM Transactions on Information Systems (TOIS)**, Volume 10 Issue 3**Publisher:** ACM PressFull text available: [pdf\(1.31 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Textual databases with highly variable structure can be usefully described by a grammar-defined model. One example of such a text is the Oxford English Dictionary. This paper describes a first attempt to apply technology based on this model to a real problem. A language called GOEDEL, which is a partial implementation of a set of grammar-defined database operators, was used to extract and alter a subset of the OED in order to assist the editors in their production of

**Keywords:** grammar defined model, parsed string, text database**25 Information extraction: Web-scale information extraction in knowitall: (preliminary results)**

◆ Oren Etzioni, Michael Cafarella, Doug Downey, Stanley Kok, Ana-Maria Popescu, Tal Shaked, Stephen Soderland, Daniel S. Weld, Alexander Yates

May 2004 **Proceedings of the 13th international conference on World Wide Web****Publisher:** ACM PressFull text available: [pdf\(171.42 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Manually querying search engines in order to accumulate a large body of factual information is a tedious, error-prone process of piecemeal search. Search engines retrieve and rank potentially relevant documents for human perusal, but do not extract facts, assess confidence, or fuse information from multiple documents. This paper introduces KnowItAll, a system that aims to automate the tedious process of extracting large collections of facts from the web in an autonomous, domain-independent, and scalabl ...

**Keywords:** information extraction, mutual information, pmi, search**26 An application of rule-based and case-based reasoning within a single legal knowledge-based system**

◆ Kamalendu Pal, John A. Campbell

September 1997 **ACM SIGMIS Database**, Volume 28 Issue 4**Publisher:** ACM PressFull text available: [pdf\(1.31 MB\)](#)Additional Information: [full citation](#), [abstract](#), [index terms](#)

A knowledge-based system, Advisory Support for Home Settlement in Divorce (ASHSD), which gives advice on different aspects of matrimonial-home-settlement in English divorce law is described. The system employs two reasoning methods, rule-based reasoning (RBR) and case-based reasoning (CBR) in an integrated framework. It automates the estimation of the relative suitability of these reasoning methods for any given new case. This relative suitability is judged by matching the features of the select ...

**Keywords:** case-based reasoning, knowledge-based system, law, numerical taxonomy, rule-based reasoning**27 The influence of browsers on evaluators or, continuations to program web servers**

◆ Christian Queinnec

◆ September 2000 **ACM SIGPLAN Notices , Proceedings of the fifth ACM SIGPLAN international conference on Functional programming ICFP '00**, Volume 35 Issue 9

Publisher: ACM Press

Full text available:  pdf(211.71 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

While developing the software of a browser-operated educational CD-ROM, we had to face a number of problems. This paper presents these problems and the solutions we found. Amusingly, most of our solutions rely on continuations. Are browsers and multimedia the future of continuations? Through their "Back" button or "Clone window" menu item, browsers have powerful abilities that force servers to take care of multiply and simultaneously answered questions. A comprehensive tool to apprehend these pro ...

28 [CHI research at MCC](#) 

 J. Hollan, B. Curtis

March 1989 **ACM SIGCHI Bulletin , Proceedings of the SIGCHI conference on Human factors in computing systems: Wings for the mind CHI '89**, Volume 20 Issue SI

Publisher: ACM Press

Full text available:  pdf(304.67 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

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